



## Author Index

- Akram, M., 167  
Alfaya, R.V.S., 135
- Bahadur, P., 57  
Behboudnia, M., 313  
Bohidar, H.B., 313  
Boisvert, J.-P., 187  
Brooks, B.W., 41
- Cabane, B., 187  
Castaing, J.-C., 187  
Chang, Y.-I., 231  
Chatterjee, J., 249  
Chavepeyer, G., 207  
Chodorowski, S., 113  
Chuiko, A.A., 105
- Denoyel, R., 297  
Desai, P.R., 57  
Dogaru, M., 129  
Doyle, F.M., 79, 93
- El-Khouly, S.M., 287  
Ellis, R., 265  
El-Shobaky, G.A., 277, 287
- Fagal, G.A., 277, 287  
Fainerman, V.B., 49  
Franses, E.I., 1  
Fujiwara, S.T., 135  
Fu, X.-a., 151
- Gliński, J., 207  
Gorbik, P.P., 105
- Gushikem, Y., 135
- Hope, G.A., 157  
Huang, J., 143
- Jain, N.J., 57  
Jamroz, N.U., 199  
Jurkiewicz-Herbich, M., 325
- Kabir-ud-Din, 167  
Khan, Z., 167  
Klingenberg, D.J., 213  
Ku, M.-H., 231
- Leboda, R., 113  
Liang, Y., 143  
Li, C., 143  
Liu, Z., 79, 93  
Luciani, L., 297
- Manaila-Maximean, D., 129  
Miller, R., 49
- Ogenko, V.M., 105
- Pang, S., 143  
Persello, J., 187  
Piscureanu, A., 129  
Piscureanu, M., 129  
Platten, J.K., 207  
Pop, T., 129  
Prosser, A.J., 1
- Qutubuddin, S., 151  
Radwan, N.R.E., 277  
Rafiquee, M.Z.A., 167  
Rouquerol, J., 297
- Sajjadi, S., 41  
Saunders, B.R., 265  
Senkel, O., 49  
Shah, S.S., 199  
Sharif, Q.M., 199  
Sharma, R.K., 57  
Shields, M., 265  
Shulga, O.V., 105  
Skubiszewska-Zięba, J., 113  
Słojkowska, R., 325  
Szymanowski, J., 71
- Talens-Alessen, F.I., 71  
Tarasevich, Y.I., 113  
Turov, V.V., 105
- Urbaski, R., 71
- Watling, K., 157  
Wines, T.H., 337  
Woods, R., 157
- Yang, K.-Z., 177
- Zauscher, S., 213  
Zerfa, M., 41  
Zhang, R.-J., 177



## Subject Index

- Adsorption, 325  
Adsorption densities, 79  
Aggregation number, 199  
Air–liquid interface, 207  
 $\pi$ -A isotherm, 143  
Alkylsulfates, 79  
Aqueous solutions, 207  
  
Block copolymers, 57  
Brewster angle microscopy, 177  
  
Carbon deposit, 113  
Catalytic properties, 277  
Cellulose, 213  
CeO<sub>2</sub>-doping, 277  
Cetyltrimethylammonium bromide, 167  
Coefficient of friction, 213  
Colloidal probe microscopy, 213  
Condensation, 167  
Conformation, 313  
Counterion binding, 1  
Creaming, 265  
[Cr(his)(H<sub>2</sub>O)<sub>3</sub>]<sup>2+</sup>, 167  
Crystallization, 177  
CuO/Al<sub>2</sub>O<sub>3</sub> solids, 277  
  
Dehydration model, 93  
Depletion flocculation, 265  
Detergency, 249  
Differential capacity, 325  
Dilational rheology, 49  
Dispersion, 187  
DLS, 313  
Doping with Li<sub>2</sub>O and K<sub>2</sub>O, 287  
Drop shape, 249  
  
Electrophoresis, 151  
Emulsification, 249  
Emulsion, 41, 265  
Emulsion inverse point, 129  
Emulsion stability, 129  
  
Enthalpies, 297  
Equilibrium tension models Adsorption isotherms, 1  
  
Fe<sub>2</sub>O<sub>3</sub>–Cr<sub>2</sub>O<sub>3</sub>/Al<sub>2</sub>O<sub>3</sub>, 287  
Flocculation, 231  
Friction, 213  
  
Gibbs adsorption equation, 79  
Glass funnel, 49  
Gold electrode, 325  
Gravity, 231  
  
Histidine, 325  
  
Interface, 297  
Interfacial tension, 129  
Ion flotation, 79, 93  
Ionic conductivity, 199  
Ionic surfactants, 1  
Isotherms, 297  
  
Liquid structure, 207  
  
Metal adsorption from ethanol, 135  
Metal preconcentration, 135  
Metal-semiconductor phase transition, 105  
3-Methylpyridine, 207  
Micellar catalysis, 167  
Micellar enhanced ultrafiltration, 71  
Micellar size, 199  
Micelles, 265  
Micellization, 57, 199  
Monolayer and LB films, 143  
Monolayers, 177  
  
Nanocoating, 151  
Ninhydrin, 167  
4-Nitrophenol, 71  
NMR, 105  
Non-Brownian particles, 231  
Non-ionic surfactant, 41, 49

- Oil-removal, 249  
Oxidation of CO by O<sub>2</sub>, 287  
  
Palygorskite, 113  
Particles, 151  
Particle size, 41  
Pesticide, 129  
Phase heterogeneity, 105  
Phase inversion, 41  
Phenol, 71  
3-Picoline, 207  
Pigment, 187  
Pluronic, 57  
Polyelectrolyte adsorption, 187  
Polyelectrolytes, 213  
Polyisobutene, 41  
Porous structure, 113  
Pyrolysis, 113  
  
Raman spectroscopy, 157  
Rare earth complexes, 177  
Resistance, 71  
Reverse micelles, 313  
Roll-up, 249  
  
Salt effect, 57  
Schiff base and complex, 143  
SDS, 1, 199  
Selectivity coefficient, 93  
  
Serine, 325  
Silica-alumina, 135  
Silsesquioxane 3-*n*-propylpyridiniumchloride polymer, 135  
Silver electrodes, 157  
SiO<sub>2</sub>, 151  
Sodium dodecyl sulphate, 167  
Sodium polyacrylate, 187  
Spent adsorbent, 113  
Stability, 313  
Stokes equation, 265  
Stress relaxation experiments, 49  
Sulfide mineral collector, 157  
Surface and catalytic properties, 287  
Surface enthalpy, 207  
Surface entropy, 207  
Surface tension, 93, 207  
Surface tensions, 79  
Surfactants, 129  
  
TiO<sub>2</sub>, 151  
Titanium dioxide, 187  
Transmission electron microscopy, 177  
Triton X-100, 167  
Tyrosine, 325  
  
UV-Vis and FTIR spectroscopy, 143  
  
Vanadium dioxide, 105